

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 980034.417C5	APPLICATION NO. 10/762,210
<b>THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS Ronald J. Berenson et al.	
		FILING DATE January 20, 2004	GROUP ART UNIT 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA					
	AB					
	AC					
	AD					
	AE					
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	AH					
	AI					
	AJ					

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
AK	WO 00/50570	08/31/00	WIPO		
AL					
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**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

AP		
AQ		
AR		

EXAMINER

*LAWRENCE*

DATE CONSIDERED

*1/30/05*

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FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 980034.417C5	APPLICATION NO. 10/762,210
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> <small>O 1 (Use several sheets if necessary)</small>		APPLICANTS Ronald J. Berenson et al.	
		FILING DATE January 20, 2004	GROUP ART UNIT 1645

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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
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**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
	AD WO 01/62895	08/30/01	WIPO		
	AF WO 02/098361	12/12/02	WIPO		
	AF WO 03/024989	03/27/03	WIPO		
	AG				

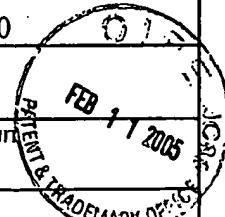
**OTHER ART** (*Including Author, Title, Date, Pertinent Pages, Etc.*)

AH	Bonyhadi, M. et al., "Autologous T Cell Therapy for B-CLL," <i>Blood</i> 100(11), Abstract No. 774, November 16, 2002.
AI	Frohlich, M.W. et al. "Ex Vivo Activation and Expansion of T Cells from the Peripheral Blood of Multiple Myeloma Patients Using the Xcelerate™ Process," <i>Blood</i> 100(11), Abstract No. 5259, November 16, 2002.
AJ	Grosmaire, L. et al., "Ligation of CD2 Amplifies Anti-CD3 X Anti-CD28-Mediated Ex Vivo Activation and Expansion of T Cells," <i>Blood</i> 96(11 part 2): 40b, Abstract No. 3834, November 16, 2000.
AK	Hou, J.W. et al., "Naïve (CD45RA+) vs Memory (CD45RO+) Status of Human CD4 Cells Greatly Influences Th1/Th2 Polarization Potential," <i>Blood</i> 100(11), Abstract No. 944, November 16, 2002.
AL	Larsen, A.C. et al., "The ratio of anti-CD3 and anti-CD28 stimulation determines proliferation and IL-2R expression in T cells," <i>Tissue Antigens</i> 55(Suppl. 1): 109, 2000.
AM	Long, S.A. et al., "Modulating T Cell Signals Using Xcyte™ Dynabeads® Leads to Selective Expansion of Antigen-Specific T Cells," <i>Blood</i> 102(11): 55b, Abstract No. 3922, November 16, 2003.
AN	Patel and Rickwood, "Optimization of conditions for specific binding of antibody-coated beads to cells," <i>Journal of Immunological Methods</i> 184: 71-80, 1995.

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<b>SECOND SUPPLEMENTAL</b> <b>INFORMATION DISCLOSURE STATEMENT</b> <small>(Use several sheets if necessary)</small>		APPLICANTS			
		Ronald J. Berenson et al.			
		FILING DATE	GROUP ART UNIT 1645		
		January 20, 2004			

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Ob</i>	AA	6,194,207	02/27/01	Bell et al.	435	377	
<i>V</i>	AB	6,316,257	11/13/01	Flyer et al.	435	372.3	
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>YK</i>	AK	WO 95/32729	12/07/95	WIPO		
<i>V</i>	AL	WO 02/072799	09/19/02	WIPO		
	AM					
	AN					
	AO					

**OTHER PRIOR ART** (*Including Author, Title, Date, Pertinent Pages, Etc.*)

	AP		
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Sheet 1 of 7

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 980034.417C5	APPLICATION NO. 10/762,210
OCT 15 2004 INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Ronald J. Berenson et al.	
		FILING DATE January 20, 2004	GROUP ART UNIT 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AB	5,081,029	01/14/92	Zarling et al.	435	172.3	
AB	5,190,878	03/02/93	Wilhelm	435	285	
AC	5,443,983	08/22/95	Ochoa et al.	435	240.2	
AD	5,470,730	11/28/95	Greenberg et al.	435	172.3	
AE	5,674,704	10/07/97	Goodwin et al.	435	69.1	
AF	5,735,279	04/07/98	Klaveness et al.	128	654	
AG	5,804,442	09/08/98	Romet-Lemonne et al.	435	374	
AH	5,858,358	01/12/99	June et al.	424	130.1	
AI	5,888,807	03/30/99	Palsson et al.	435	293.2	
AJ	5,962,319	10/05/99	Ogawa et al.	435	325	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
AK	EP 440373 B1	04/23/97	EPO		
AL	EP 633930 B1	04/26/00	EPO		
AM	WO 97/01304	01/16/97	WIPO		
AN	WO 97/05233	02/13/97	WIPO		
AO	WO 97/05239	02/13/97	WIPO		

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	"CD4+ T Cell Diversity Not Immediately Restored by Therapy," NIAID AIDS Agenda, August 1997, accessed on July 8, 2002. Available at <a href="http://www.niaid.nih.gov/publications/agenda/1097/page3.htm">http://www.niaid.nih.gov/publications/agenda/1097/page3.htm</a> .
AQ	Arenz, M. et al., "Antigen-independent in vitro expansion of T cells does not affect the T cell receptor V $\beta$ repertoire," <i>J. Mol. Med.</i> 75: 678-686, 1997.
AR	Baroja, M.L. et al., "The Anti-T Cell Monoclonal Antibody 9.3 (Anti-CD28) Provides a Helper Signal and Bypasses the Need for Accessory Cells in T Cell Activation with Immobilized Anti-CD3 and Mitogens," <i>Cellular Immunology</i> 120: 205-217, 1989.

EXAMINER	<i>Ankloes</i>	DATE CONSIDERED
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>BA</i>		5,985,653	11/16/99	Armstrong et al.	435	303.1	
	BB	6,010,902	01/04/00	Ledbetter et al.	435	328	
	BC	6,096,532	08/01/00	Armstrong et al.	435	286.5	
	BD	6,113,901	09/05/00	Bluestone	424	154.1	
	BE	6,129,916	10/10/00	Chang	424	179.1	
	BF	6,143,297	11/07/00	Bluestone	424	184.1	
	BG	6,197,298	03/06/01	Chang	424	179.1	
	BH	6,316,257	11/13/01	Flyer et al.	435	372.3	
	BI	6,352,694	03/05/02	June et al.	424	93.71	
	BJ	6,355,779	03/12/02	Goodwin et al.	530	388.23	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BK	WO 00/02520	01/20/00	WIPO		X
	BL	WO 00/02520	01/20/00	WIPO	X	
	BM	WO 03/024312	03/27/03	WIPO		
	BN	WO 03/025158	03/27/03	WIPO		
	BO	WO 03/034820	05/01/03	WIPO		

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BP	Bergstresser, P.R. et al., "T Cell-Mediated Terminal Maturation of Dendritic Cells," in <i>Dendritic Cell in Fundamental and Clinical Immunology</i> , Ricciardi-Castagnoli (Ed.), Plenum Press, New York, 1997, pgs. 65-69.
BQ	Bonyhadi, M. et al., "Xcellearate: An Autologous T Cell Immunotherapy Approach for Treating B-Cell Lymphocytic Leukemia (B-CLL)," in <i>Proceedings of the 42<sup>nd</sup> Annual Meeting of the American Society of Hematology</i> , San Francisco, December 1-5, 2000, vol. 96, no. 11, part 1, ABSTRACT # 3616.
BR	Bretscher, P., "The two-signal model of lymphocyte activation twenty-one years later," <i>Immunology Today</i> 13(2): 74-76, 1992.

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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LP	CA	2001/0031253	10/18/01	Gruenberg	424	93.1	
	CB	2002/0090362	07/11/02	Strauss	424	93.21	
	CC	2002/0182730	12/05/02	Gruenberg	435	375	
	CD	2003/0039650	02/27/03	Gruenberg	424	144.1	
	CE	2003/0134341	07/17/03	Gruenberg	435	7.21	
	CF	2003/0134415	07/17/03	Gruenberg	435	372	
	CG	2003/0170238	09/11/03	Gruenberg	424	144.1	
	CH	2003/0175242	09/18/03	Gruenberg	424	93.2	
	CI	2003/0175272	09/18/03	Gruenberg	424	144.1	
	CJ	2003/0194395	10/16/03	Gruenberg et al.	424	93.7	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES      NO
	CK	WO 03/043643	05/30/03	WIPO	
	CL	WO 03/077658	09/25/03	WIPO	
	CM				
	CN				
	CO				

**OTHER ART** (*Including Author, Title, Date, Pertinent Pages, Etc.*)

CP	Carlens, S. et al., "Ex vivo T lymphocyte expansion for retroviral transduction: Influence of serum-free media on variations in cell expansion rates and lymphocyte subset distribution," <i>Experimental Hematology</i> 28: 1137-1146, 2000.
CQ	Chapman, A.L.N. et al., "Epstein-Barr Virus-specific Cytotoxic T Lymphocyte Responses in the Blood and Tumor Site of Hodgkin's Disease Patients: Implications for a T-cell-based Therapy," <i>Cancer Research</i> 61: 6219-6226, August 15, 2001.
CR	Cohen, P.A. et al., "T-Cell Adoptive Therapy of Tumors: Mechanisms of Improved Therapeutic Performance," <i>Critical Reviews in Immunology</i> 21: 215-248, 2001.

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	DA						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES    NO
	DB				

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DC		Creson, J. et al., "The Mode and Duration of Anti-CD28 Costimulation Determine Resistance to Infection by Macrophage-Tropic Strains of Human Immunodeficiency Virus Type 1 in Vitro," <i>Journal Of Virology</i> , 73(11):9337-9347, November 1999.
DD		Dietrich, P-Y et al., "TCR analysis reveals significant repertoire selection during <i>in vitro</i> lymphocyte culture," <i>International Immunology</i> 9(8): 1073-1083, 1997.
DE		Garland et al., "The use of Teflon cell culture bags to expand functionally active CD8 <sup>+</sup> cytotoxic T lymphocytes," <i>Journal of Immunological Methods</i> 227: 53-63, 1999.
DF		Groh, V. et al., "Stimulation of T cell autoreactivity by anomalous expression of NKG2D and its MIC ligands in rheumatoid arthritis," <i>Proceedings of the National Academy of Sciences</i> 100(16): 9452-9457, Augest 5, 2003.
DG		Haanen et al., "Selective Expansion of Cross-reactive CD8 <sup>+</sup> Memory T Cells by Viral Variants," <i>J. Exp. Med.</i> 190(9): 1319-1328, November 1, 1999.
DH		Hami, L. et al., "Xcelerate™: A Platform Process for the GMP Manufacture of Activated T Cells for the Treatment of Patients with Cancer and Immune Dysfunction," in <i>Proceedings of the 42<sup>nd</sup> Annual Meeting of the American Society of Hematology</i> , San Francisco, December 1-5, 2000, vol. 96, no. 11, part 1, abstract # 3630.
DI		Heitger, A. et al., "Defective T-helper cell function after T-cell-depleting therapy affecting naïve and memory populations," <i>Blood</i> 99(11): 4053-4062, June 2002.
DJ		Husebekk, A. et al., "Selection and expansion of T cells from untreated patients with CLL: source of cells for immune reconstitution," <i>Cytotherapy</i> 2(3): 187-193, 2000.
DK		Iezzi et al., "The Duration of Antigenic Stimulation Determines the Fate of Naïve and Effector T Cells," <i>Immunity</i> 8: 89-95, January 1998.
DL		Jason, J. et al., "The Effect of Mitogens, IL-2 and Anti-CD3 Antibody on the T-Cell Receptor Vβ Repertoire," <i>Scand. J. Immunol.</i> 43: 652-661, 1996.

EXAMINER	<i>LAWRENCE</i>	DATE CONSIDERED
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES      NO
	EB				

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EC	June et al., "The B7 and CD28 receptor families," <i>Immunology Today</i> 15(7): 321-331, 1994.
ED	Kalamasz, D. et al., "Storage Shipment of Freshly Harvested or Cryopreserved Xcellerate™ Activated T Cells for Clinical Applications," in <i>Proceedings of the 42nd Annual Meeting of the American Society of Hematology</i> , San Francisco, December 1-5, 2000, vol. 96, no. 11, part 2, abstract # 5113.
EE	Kato et al., "Gene Transfer of CD40-Ligand Induces Autologous Immune Recognition of Chronic Lymphocytic Leukemia B Cells," <i>J. Clin. Invest.</i> 101(5): 1133-1141, March 1998.
EF	Kluin-Nelemans, H.C. et al., "Correction of Abnormal T-Cell Receptor Repertoire During Interferon- $\alpha$ Therapy in Patients With Hairy Cell Leukemia," <i>Blood</i> 91(11): 4224-4231, June 1998.
EG	Krawczyk et al., "Cbl-b Is a Negative Regulator of Receptor Clustering and Raft Aggregation in T Cells," <i>Immunity</i> 13: 463-473, October 2000.
EH	Lanzavecchia, A., "The Role of Dendritic Cells in the Generation of Effector and Memory T Cell Responses," from <i>The Midwinter Conference of Immunologists</i> , January 22-25, 2000, available at <a href="http://www.midwconimmunol.org/Midwinter00/sessions/lanzavecchia.html">www.midwconimmunol.org/Midwinter00/sessions/lanzavecchia.html</a> .
EI	Larsson, S. et al., "Productive Cytomegalovirus (CMV) Infection Exclusively in CD13-Positive Peripheral Blood Mononuclear Cells from CMV-Infected Individuals," <i>Transplantation</i> , 65(3):411-415, February 15, 1998.
EJ	Levings, M.K. et al., "Human CD25 $^{+}$ CD4 $^{+}$ T regulatory cells suppress naive and memory T cell proliferation and can be expanded in vitro without loss of function," <i>J. Exp. Med.</i> 193(11): 1295-1301, June 2001.
EK	Li, Q. et al., "Expanded Tumor-reactive CD4 $^{+}$ T-Cell Responses to Human Cancers Induced by Secondary Anti-CD3/Anti-CD28 Activation," <i>Clinical Cancer Research</i> 5: 461-469, February 1999.
EL	Li, Q. et al., "Immunological Effects of BCG as an Adjuvant in Autologous Tumor Vaccines," <i>Clinical Immunology</i> 94(1): 64-72, January 2000.

EXAMINER	<i>CANCER DR</i>	DATE CONSIDERED	<i>9/30/05</i>
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<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	FA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
	FB						
<b>OTHER ART</b> ( <i>Including Author, Title, Date, Pertinent Pages, Etc.</i> )							
<i>BC</i>	FC		Liebowitz et al., "Costimulatory approaches to adoptive immunotherapy," <i>Current Opinion in Oncology</i> 10: 533-541, 1998.				
	FD		Lin and Welsh, "Stability and Diversity of T Cell Receptor Repertoire Usage during Lymphocytic Choriomenigitis Virus Infection of Mice," <i>Journal of Experimental Medicine</i> 188(11): 1993-2005, December 7, 1998.				
	FE		Lopez, R.D. et al., "CD58/LFA-3 and IL-12 provided by activated monocytes are critical in the in vitro expansion of CD56 <sup>+</sup> T cells," <i>Cancer Immunol. Immunother.</i> 49: 629-640, 2001.				
	FF		Mariani, S. et al., "Severe and long-lasting disruption of T-cell receptor diversity in human myeloma after high-dose chemotherapy and autologous peripheral blood progenitor cell infusion," <i>British Journal of Hematology</i> 113: 1051-1059, 2001.				
	FG		Marijt and Falkenburg, "Specific T Cell Therapy in Leukemia," <i>Journal of Hematotherapy &amp; Stem Cell Research</i> 10: 493-500, 2001.				
	FH		Moebius, U. et al., "T cell receptor gene rearrangements of T lymphocytes infiltrating the liver in chronic active hepatitis B and primary biliary cirrhosis (PBC): oligoclonality of PBC-derived T cell clones," <i>Eur. J. Immunol.</i> 20: 889-896, 1990.				
	FI		Nijhuis, M. et al., "Stochastic processes strongly influence HIV-1 evolution during suboptimal protease-inhibitor therapy," <i>Proc. Natl. Acad. Sci. USA</i> 95: 14441-14446, November 1998.				
	FJ		Polanski, M. et al., "Xcellerate: A Closed, Scalable Process for the GMP Manufacture of Stable Activated T Cells," in <i>Proceedings of the 15<sup>th</sup> Annual Scientific Meeting of the Society for Biological Therapy</i> , Seattle, October 26-29, 2000, and <i>Journal of Immunotherapy</i> , (23)5:599, September 2000.				
<i>JK</i>	FK		Ranheim and Kipps, "Activated T Cells Induce Expression of B7/B71 on Normal or Leukemic B Cells through a CD40-dependent Signal," <i>J. Exp. Med.</i> 177: 925-935, April 1993.				
<i>FL</i>	FL		Ria, F. et al., "Molecular Characterization of the T Cell Repertoire Using Immuno-scope Analysis and its Possible Implementation in Clinical Practice," <i>Current Molecular Medicine</i> 1: 297-304, 2001.				
EXAMINER	<i>LAWLFORD</i>			DATE CONSIDERED		<i>9/30/04</i>	
* EXAMINER:	Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).						

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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	GA						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES      NO
	GB				

**OTHER ART** (*Including Author, Title, Date, Pertinent Pages, Etc.*)

GC	Riddell, S.R. et al., "T-Cell Therapy of Leukemia," <i>Cancer Control</i> 9(2): 114-122, March/April 2002.
GD	Shimizu, N. et al., "Large-Scale <i>ex Vivo</i> Expansion of Primary T Lymphocytes in Late-Stage AIDS Patients," <i>AIDS Research and Human Retroviruses</i> 16(6): 611-612, 2000.
GE	Stohl, W. et al., "Polyclonal <i>in Vitro</i> T Cell Proliferation and T Cell-Dependent B Cell Differentiation Supported By Activated Autologous B Cells," <i>Clinical Immunology and Immunopathology</i> 72(1): 44-52, July 1994.
GF	Tao, Q. et al., "Conservation of Epstein-Barr Virus Cytotoxic T-Cell Epitopes in Posttransplant Lymphomas. Implications for Immune Therapy," <i>American Journal of Pathology</i> 160(5): 1839-1845, May 2002.
GG	Ten Berge et al., "Selective Expansion of a Peripheral Blood CD8 <sup>+</sup> Memory T Cell Subset Expressing Both Granzyme B and L-Selectin During Primary Viral Infection in Renal Allograft Recipients," <i>Transplantation Proceedings</i> 30: 3975-3977, 1998.
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CK	
GL	

EXAMINER	CAN/PGD	DATE CONSIDERED
* EXAMINER:	Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).	